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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/806,885		03/22/2004	Takashi Izuta	P/1596-76	3872	
2352	7590	03/23/2006		EXAM	EXAMINER	
001110=		BER GERB & SO	MOORE, I	MOORE, KARLA A		
NEW YOR			•	ART UNIT	PAPER NUMBER	
	,			1763		
				DATE MAILED: 03/23/200	DATE MAILED: 03/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
•	10/806,885	IZUTA, TAKASHI					
Office Action Summary	Examiner	Art Unit					
	Karla Moore	1763					
The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	DN. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 22 M	larch 2004.						
2a) This action is FINAL . 2b) ☐ This							
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.	4) Claim(s) 1-16 is/are pending in the application						
	4a) Of the above claim(s) <u>1-4</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>5-16</u> is/are rejected.							
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er ·						
10)⊠ The drawing(s) filed on 22 March 2004 is/are:		to by the Examiner.					
Applicant may not request that any objection to the	·- · ·- ·	•					
Replacement drawing sheet(s) including the correct		•					
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Offic	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1196	a)-(d) or (f)					
a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	u (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	ved.					
•							
Attachment(s)		•					
1) Notice of References Cited (PTO-892)	4) Interview Summar	ry (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0304,0704</u> .	6) Other:	Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4, drawn to a substrate treating method, classified in class 216, subclass 84.
- II. Claims 5-16, drawn to a substrate treating apparatus, classified in class 156, subclass 345.15.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process as claimed can be practiced by another and materially different apparatus, such as one not comprising a count acquiring device, a storage device and/or a processing time determining device.
- 3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation between Examiner Arancibia and James Finder on 9 February 2006 a provisional election was made without traverse to prosecute the invention of Group II, claims 5-16. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-4 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 6. Claims 5-9 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP Patent No. 08-067413 to Mitsuyoshi et al. in view of U.S. Patent No. 5,672,230 to Park et al.
- 7. Mitsuyoshi et al. disclose a substrate treating apparatus for performing a predetermined treatment of a plurality of substrates as immersed in a heated treated solution substantially as claimed and comprising: a substrate count acquiring device (9) for acquiring a cont of said substrates to be treated and a treating device (4) for immersing said substrates in the heated treated solution for the processing.
- 8. However, Mitsuyoshi et al. fail to teach a storage device for storing beforehand a relationship between count of the substrates and processing time for immersion in the heated treating solution; or a processing time determining device for determining a processing time according to said substrate count of said substrates acquired by said substrate count acquiring device, by referencing to said relationship stored in said storage device.
- 9. Park et al. teach monitoring sensed processing variables during a treatment process and using a main computer (storage device and processing time determining means) to display, store and process sensed data to thereby enable effective central management of the treatment process (abstract).
- 10. It would have been obvious to one of ordinary skill in the art at the time the Applicant's invention was made to have provided a main computer acting as a storage device and processing time determining means in Mitsuyoshi et al. in order to display, store and process sensed data thereby enabling effective central management of a treatment process as taught by Park et al.
- 11. Examiner notes that the claimed invention teaches that the storage device and the process time determining means are part of a single controller/computer.
- 12. With respect to claims 6, the optical sensor of Mitsuyoshi et al. is a transmission type sensor.
- 13. With respect to claims 7 and 8, although Mitsuyoshi et al. do not explicitly teach using different types of sensors, one of ordinary skill in the art would recognize that any sensor capable of sensing the presence of wafers could be used for counting the wafers. The courts have ruled that an express

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suggestion to substitute one equivalent component or process for another is not necessary to render such substitution obvious. <u>In re Fout</u>, 675 F.2d 297, 213 USPQ 532 (CCPA 1982).

- 14. With respect to claim 9, Mitsuyoshi et al. further comprises a container rest (Figure 1, 2) for receiving a container (Figure 1, C) storing said substrates to be treated, said substrate count acquiring device counts said substrates in said container placed on said rest.
- 15. With respect to claim 12, Mitsuyoshi et al. disclose a substrate loading robot (10). Further, with respect to the recitation of the claim drawn to the placement of the counting device, the courts have ruled that the mere rearrangement of parts which does not modify the operation of a device is prima facie obvious. In re Japikse, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950). In re Kuhle, 526 F.2d 553, 188 USPQ 7 (CCPA 1975).
- 16. With respect to claim 13, Park et al. teaches that data may be acquired from an external device (column 4, rows 15-18).
- 17. With respect to claim 14, the substrate count acquiring device in Park et al. is a computer which would be capable of acquiring key input from a control unit.
- 18. Claims 10-11 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsuyoshi et al. and Park et al. as applied to claims 59 and 12-14 above, and further in view of U.S. Patent No. 5,431,179 to Miyazaki et al.
- 19. Mitsuyoshi et al. and Park et al. disclose the invention substantially as claimed and as described above.
- 20. However, Mitsuyoshi et al. and Park et al. fail to teach shutters for opening and closing partition acting as an atmospheric barrier between said container rest and a treating station.
- 21. Miyazaki et al. teach using shutters for preventing vapor from leaking outside a process apparatus (column 5, rows 28-40).
- 22. It would have been obvious to one of ordinary skill in the art at the time the Applicant's invention to have provided shutters for opening and closing a partition acting as a barrier in Mitsuyoshi et al. and

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Park et al. in order to prevent vapor from leaking outside the process apparatus as taught by Miyazaki et

al.

23. Further, with respect to these claims, which recite placing the counting device at various places in

the apparatus, the courts have ruled that the mere rearrangement of parts which does not modify the

operation of a device is prima facie obvious. In re Japikse, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950).

In re Kuhle, 526 F.2d 553, 188 USPQ 7 (CCPA 1975).

24. With respect to claims 15-16, Miyazaki et al. provide a plurality of treatment sections sequentially

arranged, for performing a series of treatment steps (column 3, rows 35-62). When one process is over

the substrates can be transferred to the next. Further, the processing fluid in each of the sections can be

drained and replaced as needed (column 3, rows 62-66).

Conclusion

25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Each of USP 6,780,277, JP 07295532 and JP 2000218474 teach process control based on a number of

substrates to be processed.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Karla Moore whose telephone number is 571.272.1440. The examiner can normally be

reached on Monday-Friday, 9:00 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

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at 866-217-9197 (toll-free).

Karla Moore Patent Examiner Art Unit 1763

19 March 2006